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 50 ATCAGGGAAGACCGCGCGCACAGCGTATTCATAATGTCGAACAGCAATCGTTGCCAAC
 AGCGCGCGCAGTTCGACGTGGNAGCAATGGACAGCGGTTTCAGCGACGCGCGCTGCC
 CTTCGCGGAGGCTCTTCTTCGCGCGTATCATCGCATAAAGCGGCTTGAGGCGGCTTTCC
 AAATCCGCGCAATCTGCGAGGATATTCATAATCATCGTCTCCATTTTCGATGCGCGATTG
 AACACATCTGCATTCTTTCAAATCGGGAACGTGGACGAACGCGCCGTTGTTGGTTGCG
 55 AAATCGACAACTTGTGTCGCGCAAAAGCGACAGCGCGCGCGGACGGTGTTCGCGGAA
 CACACCATCTGACGCGAAAGTTTCGATTTCGCTGAGCTTTTTCGCGGCGACGACGCTGA
 TCGTAAATGCGCTCCAAATCAGGCGGTAAACACGGAACAGCTCCGAATCGTGCCTCT

TCGAGAATCAGGGAAGACGTGGTCGGCGCATGGATAATGTCGTCGTTTTCAAAGTTCATG
 ATGTTTTCCGTATTTTTACGCTTTCAAATTTTTTAAGATGTTTTAAGCGCGCTGTGTTTC
 AAATCGTGTGAGAGGAATTAAGCATTGACACAAATTTATTTATAGTGATTAAACAAAA
 TCAGGACAGGCGCAGGAAGCCGACAGCAGTACAATAGTACGGAACCGATTCACTTGGTG
 5 CTTFCAGCACCTTAGAGAAATCGTTCTCTTTGAGCCAAGCGCAGGCAACGCCGTACTGGTTT
 TTGTTATTCACCTATAATTCAATAAAATTAATATATGGCTTAAAAAACGGGATCTTCGCC
 TCCGCCCGCCGCGCAGGAAGCAGCGGATATCATTTTAAACGCGGCATTAAAAATTGAC
 CGAAATATGTTGACAATCCGGAATCAAGTCTGCACATATACCCGACAGTCCAAGTATTA
 TAAAGGCTGAATAAAGAGGAAACACAGGCGCAGATATATTCGGGAGGTGCAGTCCGAATAT
 10 ATCTGCTTTTTATGCGCCTCCGGAATGCTGCGGCACCTTTCCCTTCAGACGGTATCAG
 CGGTTTTCCCATAAATGCGCGCGATGCTTATTTATCTGCCCGCGCAATTTCAAAATCTGTG
 GGTAAATCTTTGCGCTTTGCCCCAACATAATCGAAGCCGAAACAGTATTTTTCGGCAGACAT
 CTGAACGCGCGCTCAATGGCCGATTCTTTCAAATCATGCCCGAATACTTTGAAATGGAT
 GTGGATTTCCGTAACACGCGCGCGCATCGTCCGCCGCTTTGCCGTAAACGCTCGCACG
 15 CGAGTCAGTCACCTTTCTGACGCTGTTTTCCGGCAATCATCACCACATCGATGCTCGAACA
 GCCCGCCAGGCCCAACAGCAGCATTTCCAAAGGGCTGGGCCCGCTTAGCCTTACCTTC
 TGCCGCCAGCCCTCCATAACGACGCTGTGCCCGCTTCGGTCTGTCGCCGACAAACAGCAT
 CCGCTCATCCATTTTGTATGAACCTGCATGGTGTCACTCTCGAATAAGCTTTAAACCC
 GCTTTGCATATGGCGTTATTTGAACAATTTCAAGCGGCTTATCGAANAATATGGACAA
 20 ACCGCAAAAAACACTTGAAACCGGATTACGGTTTTGGCTGCTGCGCGTTGATCTGCAC
 CGATTTGAGTTTACGCTATAGGTTTTGCGCTGTCGGTATAGCCGATTGTGCGGGAAT
 ATTTGTTCAAGGACGGTGCGAAGAAATACATTACCGCATCGTCCGCCGCGCCAGCCGATA
 TTTGACGACTTCGGTTTTCCAGCGCGCTATGCTGTATTTCTGTACCCGCTTATTTCAA
 ACCGCCGACGGAATAAAGTTTTTGGCGTTGGTGATTTACGCCCGGGGGGAGTTTCGC
 25 GTCAATTTCCGCCCAACTGCCAGGCAAGCGTGAACAAATCCATAGCCTTGGGGCTTTGCTC
 GGTTTTGCTCTGCCCGCTTTGCCGTAAGTTAGCGTCCGCTCGCGGAATTTGGCTTCGCG
 ATACAGTTTTGCCCTCGCATGCTCTCTATAGTAGGTAGGTCGAGGGTATTGCCGACAA
 CGTACGCCGCGGACTCGAAACGGATATTGTATAGCGGCACCTTAACTCGTCAAAACGATTT
 GTAAGCATTTGCCCTGCGTTCAAATGTCACTGTGGCGGAATGCCGTAGCTGCCGGAATA
 30 GTGCAGCAGCGCGGATTGGGGCAGCCCTGCCGCATACGCGCACGGCAGGGCGCGGACAA
 AATGGCGCGGAAAAATATATTTTTAAAGCTTTCATCATTTTGCTCCCGCCCGTTTACGC
 CGTCAGAAAAACGGCGGCATCGCGTTTTCCGAATTTCTGACCGGTTTCCCTCAATAAAT
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 35 AACCCGTGCGGCAATATCGTCTGCCGTATCGCCGTGAGTATCGGCACAACCCCTTGCGA
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 CGGGTAAAGTTTATCAGCCTGCCTTCGTAAAGCGGCGCAAACTCGGGGGTCAGATCCG
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 40 GSTATCGAAGGCAAGCCGGATGTAAGATTTTTATGATTCAAGGTATCGCTCGGGATGCC
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 TTTGGTGGTTTCAGACGGCATTTCGCGTAAAAATGCCGAAAAACCTGTTCCGGCATGGA
 45 TTCGGACTTAATTTACTTTTTTGTATGTCGACTTGAGCCGCTGCTTTGCGCGCGCGCTTTT
 CGGGTGGCCGATTTTGACCGATTTCACATAAATACCAAGTGGCGTTCGGAACGATT
 TGTGCCCGCACCTGTTGCGGTTAGGCAAGSTTGGACGGATGTAGAAGCTGGCTTCGC
 CGCCTCTTTCAGAAGCTGTACGCTTCGTTCCAACCCGGAATCACTTGGCTCAAGGGA
 AGGTACCGGGCGCGCTTGGCTTTGCTGCTGCGAATACCGTACCGTCAATCAGGCGCG
 CTTCTGATTTCCAGGCTAACGATGTCGTTTGGTGGCTGTTTGGCTTCGCCCTGTTTGG
 50 TGATTTTTGTATTGACGGCGGAGCAGTGGTCTTCAACCGCTCTTTGCCGCGCATTTTCTT
 TCAGAAAGGCTTCGCGTTTTCTTTTATGGCCTTCGCGTCCGCCCTGTGTTTTCTACGG
 CTTTAGCCTGTGTTCTTGAAGGAATTTTCATCATGACTTCTGAGCCTGCTCTCGGTCA
 TTTTGATTTCTTGGCCTCATACACTGCGTGCATGGCTTCGGTAAAGACTTTCAATTCGA
 TTTCCGGCGCTGTTCTTCAATTTGCTTCAGGGAGCGCGATGTCACGCGCCATCGCAT
 55 AGCTTGCCTGCTGCACTGCTGCTGCCGATCGAAGAGTCTGCGCCTGCGCGGAAGAGCGG
 CGGCAGGTTCCGATGCAGATCGGGGGCGGCTTCTTTTTTCCGCGGCGGAAAGTGCCA
 AAGTCGGCGGG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 23>:

gnm_23

CGTTTTCATACCAAATGCTGCGTCAGGTTGTGGAACTCGGCGGACTGATGCTTGTGTC
 5 GATTGCCATGCCGCTCTGAAAGCGTCGCCTGAATGCGCGCTTCGGTTTCGGTGGTTAAATTG
 TTCTTTGGCGGCGGAGCAGCAGAGAGCAGGAAGTTGGCTGTCTTGTTCCTTGATTTGGGA
 GAGTCCGTTTTGTTCGAGCAGCGGCAGAACAGCGGTGGTCGAAATCGTCGCCGCCCAA
 CGCGCTGTTGCCCGCGTGGCTTTGACTTCAAACAGTCCTTTGGTCAGTTGCNATACGGA
 10 TAGCTCGAATGTGCGCGCCCTTAAGTCGTACACGACAAACGTGCCTTCGAGGGCGTTGT
 CAGCCCCGATGCGATTGCGCGCGCGTGGGTTCGTTGAGCAGGCGCAATACGTTCTAAACC
 CGCCAGACGCGCGGCATCTTTGGTGGCTGGCGTTGGGCATCGTCGAAATAGCGGGGAC
 GGTAAATCACCAGCGCGACCAATCGCCGCCCAAGGTTCTTCGGCGCGCATTTAAGGGT
 TTTGAGGAKTTCCGCGCACTTCGACAGGCGTTTCACCCCCTGCCGCGTATGCAAGTT
 15 GATAACCGGTTGATTGTGCCGAAACGGTAAGGCAAGTAGTCGATTTTnAGGCGCGCG
 ACGGCGTTGCGTTCTCCATCAGACGCGAATCGGCAACGCGGTTnCGGGGTGGGCGCAA
 AACGGGCGTTTCATCGGGTTCGTCCTCCTATGTGCTCGAAGTTAGACGCGGACGCGCG
 GGGCGGGCnATTTCCAGACCTTCTTCGGCACTCATATAGACGGGTTTTCGGGACGCTCG
 TGTGCGACGATGTTGCCCTTCGCGAACATGACCAGTTTGTnACGGCAAGTTGGGACCAT
 GATTCTnTCGGCGGTCA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 24>:

gnm_24

CGGCGAAAAATAGCGGTCAATGAGGCGAAGCCTGCCGATGCCAATGCCAAAACAGCCATG
 CGTTGCTGCCCATGTTTTCTCCTTGGATTGTGAACAATATGAACGGTATTTTTGTTGCTG
 5 CGTCAAAAATTTCACTGCGGGTTTGGTCGGGATAACGTTATAATATGCGTATATATTT
 TCAATCCACCTGTTTGTGCGCTGATGCTTTCAGACGGCATGTCCCTCCTCATTTCTAAAG
 GAAATCATGAGCTTCAAACCGATGCCGAAATCGCCCAATCCTCCACCATGCGCCGAT
 TGGCGAAATTTGCCGCAAGCTTGGTCTGAATGCCGACACATTAGCCCTTACGGTCATT
 10 CAGGGCGAAATCAATCCTGCCGAAGCGTTCAAACTCGCCGAAAAACAGGCGAGCTGAT
 TTTGGTTACCGCCATCAACCGCACTCCGGCGGGCGAAGCAAAACACCGTAACCATCGG
 TTTGGCGGACGCGTTGCGCCACATCGGCAAGATGCGGTGATTGCCCTGCGCGAACCTTC
 TCTGGGCGCGGTGTTGCGGCTGAAAGGCGCGCGCGGCGGCTATGCCCAAGTTTT
 15 GCGGATGGGAAGACATCAACCTGCACTTCACCGGAGATTTTACGCGCATCGGTGCGGCA
 TAATCTGCTTGCGCGGATGCTCGACAAACATATCTACCAAGGCAACGAGTTGAACATCGA
 CCCCAAACGCGTGCTGTCGCGGCGCGTGGTGCATATGACGACCGCGAGTTGCGCAACAT
 20 CATCGACGGCATGGGTAACCCGTTGACGCGGTGATGCGTCTCGACGGTTTCGATATTAC
 CGTTGCTTCCGAAGTGATGGCGGTATTCTGTCTTGCCAAAGACATCAGCGATTGAAAGA
 GCGTTTGGGCAACATCCTTGTGCGCTACGCCAAAGACGCGACGCCGCTTACGCCCAAAGA
 TTTGAAAGCGAATGGCGGATGGCGGCATTTGCTTAAAGATGCGATTAAAGCCCACTTGGT
 25 GCAACCATCGAAGGACGCGCCGCTTCGTACACGCGCGCGCTTCGCCCAACATCGCCCA
 CGGCTGCAACTCCGTAACCGCAACCGCTTGGCGCGGAAAAAATTCGCGACATCAATCGCGCT
 CGAAGCAGGCTTCGGCGCGGACTTGGGCGCGGAAAAATTCGCGACATCAATCGCGCT
 TGCCTGTTGAAACCTGATGCGGCTGTGTGCTGGCGCATGTCCGCGCGTTGAAATATA
 30 CGCGCGGCTGGAAACGCGCAACCTCGCGGAAGAAAAATTTAGACGCTTTGAAAAAGGTTT
 GCGCAACCTGTTGAAACATTTCCAACTGAAAAACGATTTGCGACTGCCGCTGCGTCT
 TGGCTCAACCGCTTGTGTCGACGCGCATGCGGAGTTGGCGATGATTGAAAAAGCCTG
 35 TGCCGAACACGCGCTGAAGTTTCCCTGACCGAAGTGTGGGGCAAGGTGGTGGCGGCG
 CGCGGATTTGCGCGCAAGTCGTCAACGCCATTGAAAGTCAAAACCAATCACTTCGGT
 CGCTACGATGTCGAGTTGGGCATCAAGCAAAAAATTCGTCGCGATTGCCCAAAAGTGTA
 40 CGGCGCGAAGATGTTGATTTCAGCGCGGAAGCGCTGCGCAAAATCGTTCACTGGAAAA

ACTGGGCTTGGACAAATGCCGACTGTCATGGCGAAACCCAATCTCTTTGAGCGACAA
 CGCCAAACTGTTGGGCTGCCCGAAGACTTCCGCATCGCGTGGCGGCATACCGCTTTC
 CGGAGCGCGAGGTTTCTACGTGCGCTGTGGCGCAACATGATGAAAATGCCCGGCTGCC
 CAAAGTTCGGGCTGCCGAGAAATCGATGTGGACGAGAAAGCGGTGATTCAGGCGTGTGT
 5 CTGAACGGCTTTTCTGAAACCGGATGCCGCTGAAGCCGTTTCAGACGGCATTTTTCGGA
 ACGGGGCGGCGGTATGCTATAATCCGCGGTAAATTTCTCTATTTTCAGGAAAAACAT
 GAGTTTGAATGCGGCATCGTGGTTTGGCCAACTCGGCAATCCACCTTTTAAACGG
 GCTGACCAATCGGGTATCGAAGCGGCAAACTATCCTTTCTGTACCATCGAACCAACGT
 CGGCATCGTCSAAGTCCCGATCGCGTATGGCGAATTGGCAAAATCGTCAATCGCA
 10 AAAAACTGAGCGCTGCCATCGTCSAATTTGTGATATTGGCGGTTTGGTTGCGAGGCGGAG
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 GAATGCTGTCGCGTGTCTTACGACGACAAACATCGTCCACGTTGCGAGCGCGTGCATCG
 GATTGCCGACATTGAAACCATCGGACAGAGTTGGCACTTGGCGACCTGGCAAGTGTGCA
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 15 GGTCCGATTGTGCAAAAACTGCTGCCGCATCTGGACGAAGGCAAAACCGTGGCTTCTT
 CGGTTTGGACGCGAAGAACCGCGGATGCTCAACCGCTGTTCTGCTGACCGCAAAAC
 GCGCATGTATGTGGCAACCTCGCGAAGACGGTTTGNAAACAATCCGACCTCGACGG
 CCGTGAAGAAATTGGCGGCAAAAGAAACCGCCCGCTTGGCGCGGTTTGGCGGTGAAG
 GAGCGAAATTGCCGAATTGGAAGACGACGAAAGCGAGTTCTCGCGGAAATGGGCTT
 20 GGAAGAACCGGGCTGAACCGCTGATTCTGCGCGGTTACGACCTCTTGGGCTGCAAA
 CTATTTACCGCGGTGTGAAGAAAGTCCGCGCTGGACGATACACAAAGGCGACACCG
 CGCCCAAGCGCGCGCGGTGATTCTATCGGATTTTGAACCGGCTTCATCCGCGCCGACAT
 CTATTTCTACGACGACTTTGTCTCGCTCGCGCGGAGCGAAAGCAAGAAAGCGCGCA
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 25 TAAAGCTTAACCAATCGCGCGAGTTTTCAGCGGCTTGGCGAAATGCGCTGTGAAGCG
 GATTTTGTATGATTTTTCGGCGTTTCCGCTACCGCGGAAATGACGCGCATCAAAATAACT
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 GTTACGGGAAGCGCTCGCGCATTCGAATATCCGATCCCGGATACGAAATGACCTTTCA
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 30 GACGAAACCGCGACGATATAGTATAGTACGGCAAGGCGAGGCAACGCGCTACTGGTTTT
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 CTTGCCCACTCTGCGCGCTGCGAATTAATGATAGGATCGCTGACCGCGCTGTGGATGCG
 CTGCGCGCAACCTGCCGTGGCGAGCGCTGTGCCCGCTGCGCGCATTTGTTGCGGTGTG
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 45 GCTTAAAAAATTTTCCCAATCGAAATCACTGTTGCGCGGTTTGTATTTCTATTCGCT
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25 AAAGAGCGCGCGGCTTTGTGAACAGCAAAGCGTTTTGCTCAACGGCAACCTTGCCGAA
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10 GCCAAGCCGCTGTCTCGCGGTGCAGACGTGGTGTATCAACTGATTGATACGCCGAAAGGCA
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20 CGTCTTGGGGTCCGCGCGCTTTGGAAGCCATGATTGAAGGTGCTCTGACTGGGTGGTTT
CAGCGCAACGCTATTGGGCGACGCGATGACTTCTTTGTTCAAAAGAAACGGCGGCGAC
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25 TTGTGAACACCGCAAGAAATTGGAAATGGCCGGCTGATTGTATCTCGAAGCGAGCGAAC
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35 ATGCAACGCGCAGCGCAAACTGCCCTGTATCAGATCAGACGAGTTTGGTTCTCTTGA
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CCGAACTGGTGAATAAATGACGCGCAATCCGCGAAGCGCGAAGCGGTAAACCGCGCCA
TCGAGGCTTTGCGCGCGCAAAACCGTCCGTTGCTGCTTGAAGCCGAAGCGGAAATTA
40 CCGCGCGGAAAGAAATGGCCGCTATCTGAATGCTTTGGCGAAGAAATTCGCTTTGCTT
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The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 25>:

5 **gnm_25**

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The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 26>:

gnm_26

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 15 GTCGAAGCCATCATCATGTGTGCCAAACGCGTGGTTGAGTGTTGAGAAAAAGGTGCTGT
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 20 TCCAAATTTGCCAGCTTCGGGAAATCCCGCAGGACAAAAATACCGCGACGACGCCACCA
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 TAACCGGCATCGCGGAAACCCGATATCGGCGACGCAACTGGATTATGGCGTA

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 27>:

25 **gnm_27**
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The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 28>:

gnm_28

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5 GTCTTCGGCGCGCGCGATGATTTGGGCGATGTTGATGCGTCCGCCGCGGTGCGGCGAGGAT
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GGCGCGCGGTTTGGCGGTTTCATCGCCAAATCCAGCATAGCGGTAAACGCGAAACGCCCTTT
GGTGGTCAGTCTCATGGTGGTGGTGGCCATGTCGGTTTTTTAGG

10 The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 29>:

gnm_29

GAAGACTTTGATTCTTTTTTCAGCATATGAAGGAATATCAATATGCTATTGACAATGAA
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25 TGTGAGCGATAAGCAGTGGATCAACAACCTGACCGTCAACCTGGCCAACTGCGGGCAGTGC
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The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 30>:

gnm_30

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The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 31>:

gnm_31

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 GCGCGAAGAGATGTTTTCACAAAGATGCGGTAGGAGTCGCGCTTGTGCGGGTTTGGGT
 CAGAAATAGCTGCAATCTGCCGGAAGCGGCGAGCTTGCSCGCTCTAGGGGTTGATGGA
 55 GCGGGAAGGCGCTGCTGAAACCAATGTGCGGTGCGGTGTTTCGCGGCTGTAATCCAT
 GCCTACGGTCAGGTGGTTTTCACAAAGCGCGATGGTGTAGTCGCGGTGTAATCCAT
 GACGACAGGGTTTGTGTCGCTGCTGCGAGCGTAGTTACGTTGATTAAAGTGGC
 ATTTTTCGCTGCCGTCATAGAAATGATCAAAATCGTCCGCGCGCTGCGGTGGCGAGCTG
 CCATTTGGGCAACGCATTGTGCTTGAAGCGCTATTCAAGGTCGGAACGCCAACTTGACG

CTTGTCCTTTGACAAAAATCGTTCGGTGGGCGAACCCCATGCGGTAAGGCAGTCCGAAGCG
 GTGCTACACGGACTTGGTGGGACTGCGGTGGGCGGTGCGCTCCACATTTGTCGTAGGTGTA
 TTGCCCGCTCCACTTCAAGCCGTTGTGAGTTTGACGGTAATGCTGGCGAAACCATGAC
 ATTTTTGCTGTCTATGCGCGCTGCGGAACGAATTGGCGCGCCGACTTTCGCGGTTGAGACG
 5 GATGGCGACGTTTTTGTTCAGCACTTCGTTAATGTCCATATTCAGGCTGCGGTTTGCCCA
 TGAAGCCGTAACCGCTCCGATGTTGCGGCTTTGTTGAAGTTGGCGTATTGCTGACCAT
 GTTGATGACGCGCGCGCTGTTGTCGGCGTAAGGACGGAAGACGGGCTTTTCAGGAT
 TTCACGCGCTCGATGTTGGCAGTACTGCGGCGCACTTGTCCGCTTTCGCGCAGCGCGTC
 GCGGTAAATATCGGATGCGTGGCTTGAACCCGCGCAGGAAATGCTTTCACCGCGCAT
 10 ATCGTAGGACGCGTCGATGCCGCGATTGCCCTCGAGGATGGAACCTAAATCGTTCGTACC
 GTAATTTTTGTTTTCTGGATATTGAGCGTATCGATGGTTGCGGCGTTTCTTTGATGAG
 CTGCGCTTGGGGTAACGGCGGCTTCGTCGTAGTTGATGAGCCTTGAGTACGCTGGT
 GTCGGACTGTCGCAACCGGAACGGTGGCGAGAGTGGCGGTGTAATGTTACCATTTGTC
 CTGCGTATCGCGCGCAGCAACAGGGAAGGAAGCAATAATCAGCGTGGGTAAATAAGCTAA
 15 ATGAAATGATATTTTCAATTTTATACTCAATTTAACAACCAACCGAATTATATGGCCTC
 ACGGAGGAAATGAGAAATAATTTCTTTAACTATATTGAACATGATATTTGTAACAAAGG
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 ACGGAATTTTTTGAACCGGAAATTTATGCGCGCAACACTTTCAACGTTTCGCAACGGGT
 TCAAAAGTCTTTTACCTGCGCGCCCTTCAATACCGCGCATTAACCATTTTGTGCGGCGAAC
 20 AACCGTTTTTGGGGATATTCCAGCTTTTGGCAATCGCGCATCGGCGAAGGATGTAA
 TGTTCAGGTTTGCACTACGCCGACCGCGGCAAGTGTGCTCCAAACGGCATCTGCACC
 ATCGCGTTTGCTGATCCGCGCAACCGGGGAAGTTAGCGGCATAAGCAGGGAACTGCTCC
 TGCACACCTTTGACGACATTTTGATCTTCATAAAACAAATGGTTGCGCACGACATCGCTC
 25 AACAGGTTCAATTTTGGCGGTCGGTTCAAACTGTGCGCAGGCAGCAGCGCACCGGCG
 GCGTCTTCGACAAATTTGCCACACCTTATCATGCTCTTCGCGCAACGACGACGACCGGCG
 CAGATTTGGGAATGAAACGAAGAGGTGTGTGCAAAACGCGGTGTTGCAGCATTTGGACA
 ACTTCATCTTTCGCGACGGCAGATTTTATTAAACGAATAAATGGAACGCGGCTTTTCG
 CGACGCTGTTGCAGAGATTGACGGTC

30 The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 32>:

gnm_32

CAGCGCGCGCCCTCGGCATTCCCGCCCTCCCTTTGAACGCGCAGCAAAACGCGGATTTG
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 35 CACCGTGTTCGCGCCGGTGTGGAGTATGCGCGGCAAAAGTCAAAAGCTTCTTCGCTGCC
 GTTGCCGAAGGCGCGGCTCAGCGCGCTGATCTCCCGCAATATGCGACCGAATCTTTA
 GGTACATGCTCGCGGTTACAATATTACGCTTAACTCGAATCTTTGACGACGACAAA
 CTCGCGTCCATTGCTGCCAAAGGCTTGAACATACGCTTCTGATGTCGATTCCTTCAC
 GACGTTCAAGAAAAGCCGAAAAGGCAACAAATACGCGCAAGAAGTTTTCGAATCTTGG
 40 CAGATGCCGAATGGTTGCGCTCAGCGCGCAAGTTCCCGAAAAATCACCGTTACCGGTT
 TTCGAAGTTGACGCGCAACCAATACAGACGACCTCTCCCGCGCGCGAGCGGTGGAGT
 CGTCCGATATTTCGCTGACGCGCTGGCCATGCTGAAAAACCGCGCGAGCATCACG
 CCGGACAAACCGGCGAAGTGGTCCGATTAAATTTGGAAGAATCAAAAGCAAAAGC
 CATCCGTTGCTTACGTGCGGACGTTGGTGGTACTGGTCTTTCACGCAAAATCCGCGACC
 45 AACTCCGTCATTGGCATACCGCGCAAGACATTCGTTGTCGCGCAACAAACGCTTCGCG
 GGCGTATGTTTGGGCGGCAAAATCGCGCGATTTTCTCAATACCAAGAAGATTGCGCG
 GCGCTGCCGATTGAAGTCGATGATCTGCTCTAAAAATGGGCGAGTGTGTCGATATCTGT
 CTTATTAGAAGCAAAATCGTGAACAAACGCGGAGACTTTGCGGAGTTGAATTTGAATCA
 CAAGTATTCTGGACGAAGTGCAAGCCGCGCGCGTATCAACCTGATTATCGGCGAGGTT
 50 CTGACCGCAAGAGCGCGGAAGCCCTGAACTGCTGCTCTACTGCAATTCGCGCTGCGG
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 ACGGTGCGCTCGCAAGACACGACCGGCGGATGACCGCGACGAGTTGAAAGACTTTGGCT
 TGTTTGGGCTTCTCCGCGGATATGGTGTATGAGTCTTTTCGCGACACCGCGCGCTATCCG

AAACCTGTCGATGTAAAAACCCATAAAGAACTGCCCGCCTTTATTTCCACCCGTGGCGGC
 GTGTACTGCGTCCGGGGGACGGCGTCATCCACTCGTGCTCAACCGCCTGCTGCTGCCG
 GATACCGTCGGCACGGCGGGCGACAGCCATACCCGTTTCCCCATCGGTATTTCCCTTCCCC
 GCGGGCTCCGGCTTGGTTGCCTTTGCGCGCGCAACGGCGGTAAATGCCGCTCGATATGCCG
 5 GAGTCTGTATTGGTAGCTTACAGCGGCAAGCTGCAACCGGCGTAACCCGTGGCGGATTGT
 GTGAACGCCATCCCGCTGTACGCAATCAACAAGGTTTGTGACCGTGTGCCAAAGCGGT
 AAGAAAAACATCTTCTCCGGCGCATCTCTGAAATCGAAGGCTGCTGATTGTGAAAGTG
 GAACAAAGCTTTGAATTGACCGAGCATCCGCGCAAGCGCTCCGCGCGCGGTGTACCGTG
 AAGCTCAACAAGAGCCGATTATCGAGTACATGAATCAACGCTGTGTTGATGAATAAAC
 10 ATGATTGCCAACGGCTATCAAGACCCGCGCACTTTGGAACCGCCATCAAGCTATGGA
 AATGGCTGGCAATCCCGAGTTGCTCGAAGCGGATAAAGATGCCGAATAGCCGCCGCTG
 ATTGAATCAACATGGACGACATCAAGAGCGGATTATCGCTGCCCGAACGACCCGGAC
 GACGTTGTGTTCAITGCCGAACGCTCCGGCACCATAATGACGAGATATTATCGTGGTTGG
 TGTATGACCAACATCGGCCACTTCCGCGCGCGCTCCAACTTTTGGAAAGCAAGGCAGAC
 15 ACCCCCGTCCGCGCTGTGGATTGCGCGCGGACCAAAATGGACGCGAAACAAATTGTCCGAC
 GAAGGACACTACGGCGTACTCGGACGTGCCGCGCGCGTATGGAAATGCCGGGTTGCTCC
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 CGCAACTCTCCGCAACCGTTTGGGTAAAAACACCTTTGTTTACCTCGGTGCGCGGAGTGT
 GCRGCGATTGTCTCCAACTGGGTAAAAATCCGACCGTTGAAGAATATCAAGCCAAATATC
 20 GGATCATCAACGAACAGGCGGATAAAAATCTACCGCTATATGAATCAACAGCATCGAC
 AGCTACAACGAAGTAGCCGAGACCGTGAACGTTTAAATCCCGTTCATCCGTATGAAGTAG
 GGATGTAGCCCAATGCCGTCTGAACAACTTCAGACGGCATTCGAACATTCCCGTTAACC
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 25 AACCTGAAAAACCGCCATTTTCTGAACTTTTAGACTTCAGCGCGGAAGAAATCACCGCC
 TACCTCGAACTTCCGCGCAATTGAAAGCGGCCAAAAAGCAGGGCGGAGATTTCAGCGG
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 TTTGAATGCGCGCGCGCGATCAAGGCGGGGAGTGACTTATTAGAGCGCTCGCGCAGC
 CAAATCGGCGATAAGGAAACATCAAGACACCGCGCGCGGTGTGGGCGAGGATGTACGAT
 30 GCCATCGAATATCGCGGTTTCGGTCAGGAAGTTGTTGAAGAAATGGCGAAATACGCGGGC
 GTACCGGTGTTCAACGGGCTGACCAACGAGTTCCATCCACACAAATGCTTGGCGACGCA
 CTGACTATGCGCGAACAACAGCGGCAACCTTTGAACCAACCGCGTTTGCCTACGTCCGC
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 35 GCGCGCGCAAGAAACCGCGCAAAAATTACCCTGACCGAAACGCGCATGAAGCGCTG
 AAGAATGTTGATTTTATTCATACCGATGTGTGGTCAAGCATGGGCGAGCGCAAGAGTC
 TGGCAGGAACGCATCGATTTGCTGAAAGATTACCGCGTTACGCGCGCACTGATGGCGGCA
 TCGGGCAATCCGCAAGTCAAATTCATGCACTGCCGCGCGCTTCCACACCGCGCAACCC
 40 AAAGTCGCGGAATGGATTATACGAAACCTTCGGGCTGAACGGTGTGGAAGTTACAGAAGAA
 ATATTGAAAGCGCGCGCGCATCGTGTTCATGAGCGGAAACCGGTATGACACAGGATT
 AAAGCGGTAATGGTCGCGGCTTCGGCGACTGACAGAACTGTGCTGTTTAAATTCATCC
 45 GCAACACAGATACCGTCTGAACAGATGTTGACAGCGTATCCATATATAGTGGATTAAAT
 TTAACACAGTACGCGGTTGCTCGCCTTGCCCTACTATTTGTACTGTCTGCGGCTTCGTC
 GCCTTGCTCTGATTTTGTAAATCCACTATAAAAAAATGCTTACAGATGTGTAGGTAG
 TCCGTTTGA AAAACAAATCAGTTTGTGCTTGGTCAACCAATTTGTTGGCAGTAAATCCAG
 50 GCATCATGGACGCGAGTTTGTGCGCGCACTTTTCAACTTGGTGTGCGGATTCAGACGCG
 GCGCGGCACTATAGACGATAGTTGACATTACCTCTTGGATAAATCTTTTGGCTATT
 CGCGGTTTGAATGCTTTTCAGGCACTGCGCATGCGCTCTTGTGGAAGCACTTGACCA
 CTTCAAGGGCGGTAAACGATTTCGCGTACTTCGCGATTGTTGGAATGGAGTAGTTATAT
 TGGCAATACCGCCTTCGAAATCAGGTCAACGATCAGTTTCAATTCGTGACAGCATTCGA
 55 AGTAAGCCATTTCAGGCGGCTAACCGGCTTCGGTCAGGGTTTCAAAAACCCCGCTGATCA
 ACTGACGACCGCGCGCGCAACAATCGGCTTGTTCGCGCAACAGATCGGTTTCGGTTCTCT
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5 CTTCGGACGGGTTAAACAGAGTGTGCGGCTTAATCGGCAACTTCATTCAATCAATGACATT
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10 GCGACAATTTTAAATGTTGACATAAATCTCTCCTCGCGTTCGTTTTTCAGACGACATCTCA
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15 CGGCGACGGACTTTTACCAACATCAGTTTCGCGTTCGACAAAACGGCTTTCATTCAATCG
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30 TGGCTTGATAATTTGCTGCGGTTGCTCAACACCAAGCAATCTCGGGAACGCCATTCCTC
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50 CGATTAGGCTACGCGCATTTGGGGAACACGGCAACAGACGGATTATCAATCAATTGGA
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55 CCCAATAAAGACTCGGGATATTGATTGAACCTGATTTTATTTTGTATATACAAAAAT
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 5 CCGGATTTTGAAGTCCCGTGCCTCTACCAATTTGCCACCTGGGCTGGTGAAGAAAGTCGTCA
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 10 TTTATCTTGGGAGATTGTCATGTTTTCCGTACCGCGTTCCTTTTTGCCGGGCGTTTTCGT
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 15 TGTCTGCCCGACAGAGCTTTGACGTACAGCGACAGTTGAAGCAGTTGGGCGGGCAGGCG
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 GGATTTGAGAGATTGCCAAGTCCGCATGATGGTTGCTGTGCGTAAGGGGTTGATTACGA
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 40 AACTCGGTCGTATATCATCAGCTATCATCTGACTGAAGTCGAAGCACTCGCGCGGCAAT
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 50 AATCATGAAAAAATCAACACCCCAATCGCCGATTTCCAAAGCCGGACTCAAGCCCTGCT
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 55 CATTCGAAGCAGCTTCAGACGGCATTCGAGACCGCGCCCGCGCTGTTCGAAAGTACCA
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 30 CTTGAAAAACGAAACGCAACGGATGTTTCGCGAATGGGCAAAATATGCGCTCTGAACAC
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 35 CTGCACAACCTTTCGACCTCGCCCAAGAGCAGGTTTCGCTGCTCAAGCTCGCCAAACTC
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The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 33>:

gnm_33

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 45 ACCGGACAAGGTGCGAAAAATTCATAAGTTTGACCTAAAAATAGTAAAACTTATTCATCT
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40 AACCGCGCTCGEATTTCGCGGTGTCGGAACATACCGGAAAGATAATCGCTATCTTCG
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45 TTACAAACAATAACGCAATGCAACGATAAACGCCAGCCGGGATATTAAACCCCAAAA
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50 AATTTTATCCCGCCCGCCAAACCGCGCGGCTTCAGACGGCAGCGCAACTTGATATA
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55 AGCTTCACGTCGCCATACCCATATAGTCGCAATATCGGGATTGTCGTTTATCGCCG
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 15 GATAAAAAATCGCACCCCTTTCGCGCATTTCCGGGATTTTGCCCGCGCAATACAGAAAACCC
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 AACCGCTTGTGCG

20 The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 34>:

gnm_34

CMAATGGTCGTCATTTCATATAATCGTCTTCGGCGCGCTCCAATTCAAAATATCTTGTTTC
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50 The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 35>:

gum_35

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The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 36>:

gnm_36

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The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 37>:

gum_37

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